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TRANSMITT			Applicat	ion Number	10/715,9	76
TRANSMITTA	۱L		Filing Da	ate	Novemb	er 17, 2003
FORM			First Na	med Inventor	Samuel	C. Wadsworth et al.
(to be used for all correspondence aft	er init	ial filing)	Art Unit		1614	
			Examine	er Name	Not yet a	assigned
Total Number of Pages in This Submis	sion	9	Attorney	Docket Number	5121	
		ENCL	OSURES (d	heck all that apply)		
Fee Transmittal Form			ment Paper Application)	rs	After A	Allowance Communication to
Fee Attached Drawi			g(s)			al Communication to Board of als and Interferences
Amendment / Response		Licensi	ing-related	Papers		al Communication to Group al Notice, Brief, Reply Brief)
After Final		Petitior	า	•	Propri	etary Information
			n to Conver ional Applic		☐ Status	s Letter
			of Attorney, Revocation e of Correspondence Address			r Enclosure(s) e identify below):
Express Abandonment Request	Express Abandonment Request		nal Disclaimer est for Refund			pages of PTO-1449; 43 ublications
information Disclosure Statement			umber of CE			
Certified Copy of Priority Document(s)		Rema	· T	7(5) 1		
Response to Missing Parts/ Incomplete Application						
Response to Missing Parts under 37 CFR 1.52 or 1.53						
SIG	NAT	URE OF	APPLICA	NT, ATTORNEY, O	R AGENT	
Firm or Individual name Jennifer D. Tou						
Signature	~~	Pil	Jane	egnost		
Date April 8, 2004						
		CEI	RTIFICAT	E OF MAILING		
I hereby certify that this corresponder Service with sufficient postage as fi Alexandria, VA 22313-1450 on the dat	rst cla	ass mail in	simile transi an envelo	mitted to the USPTC ope addressed to: (	or deposite Commissione	d with the United States Postal r for Patents, P.O. Box 1450,
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## THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Samuel C. Wadsworth et al.

Examiner: Unassigned

Serial No.: 10/715,976

Group Art Unit: 1614

Filing Date: November 17, 2003

METHODS OF TREATING DIABETES AND OTHER For:

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313

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## INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached Form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

## I. Timing of the Information Disclosure Statement:

This Information Disclosure Statement is filed:

with the new	patent application	n submitted	herewith (3	37 C.F.R. {	§ 1.97(a)).

- Within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 C.F.R. § 1.491.
- $\boxtimes$ Before the mailing date of a first Office Action on the merits. In the event. however, that an Office Action has crossed in the mail with this Information Disclosure Statement, the Commissioner is hereby authorized to charge Deposit Account No. 07-1074 for any fees required pursuant to 37 C.F.R. § § 1.17(p) or 1.17(i)(1).

This Inforn	nation Disclosure Statement is filed:
	After the first Office Action and more than three months after the application's filing date; or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a fina rejection or a notice of allowance, whichever comes first, and the Commissioner is hereby authorized to charge Deposit Account No. 07-1074 for the fee (\$180.00) set forth in 37 C.F.R. § 1.17(p) and any additional required fees.
This Inforn	nation Disclosure Statement is filed:
	After the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and is accompanied by the fee (\$180.00) set forth in 37 C.F.R. § 1.17(i)(1) and a certification as specified in 37 C.F.R. § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the Information Disclosure Statement.
The under	signed certifies that:
	Each item of information contained in the Information Disclosure Statement was first cited in any communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
	No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56 more than three months prior to the filing of this Information Disclosure Statement.
I. Copies	of the Cited Items:
$\boxtimes$	Copies of all of the items listed on the attached Form PTO-1449 are enclosed.
	Copies of only the following items listed on the attached Form PTO-1449 are not enclosed:
	Copies of those items which are marked with an asterisk (*) in the attached Form PTO-1449 are not supplied because they were previously cited by or submitted to the Patent Office in a prior Application No

	filed and relied upon in this application for an earlier filing date under 35 U.S.C. § 120. See 37 C.F.R. § 1.98(d).
	Copies of those items which are marked with an asterisk (**) in the attached Form PTO-1449 were cited in a foreign examination report in a related case. A copy of the search report and the cited references not already of record in this application are attached hereto.
III. Concis	se Explanation of Relevance:
Citation of	the above documents shall not be construed as:
1.	an admission that the documents are necessarily prior art with respect to the instant invention;
2.	a representation that a search has been made, other than as described above; or
3.	an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).
	respectfully requested that the Examiner indicate consideration of the cited by returning a copy of the attached form PTO 1449 with initials or other marks.
The any addition Statement.	Commissioner is hereby authorized to charge Deposit Account No. <b>07-1074</b> for nal fees required in connection with the filing of this Information Disclosure
	Respectfully submitted,
Apri Date	By: Jennifer D. Tousignant Agent for Applicants Registration No. 54,498

Genzyme Corporation 15 Pleasant Street Connector P.O. Box 9322 Framingham, Massachusetts 01701-9322 Telephone: (508) 270-2553 Facsimile: (508) 872-5415

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Sheet 5 of

	Complete if Known
Application Number	10/715,976
Filing Date	November 17, 2003
First Named Inventor	Samuel C. Wadsworth et al.
Art Unit	1614
Examiner Name	Not Yet Available
Attorney Docket Number	5121

			U.S. PATENT	DOCUMENTS	
Examiner Initials *	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
	1	US-2002/0090719	07-11-2002	Yew	-
	2	US- 5,118,666	06-02-1992	Habener	
	3	US- 5,264,618	11-23-1993	Felgner et al.	
	4	US- 5,270,181	12-14-1993	McCoy et al.	
	5	US- 5,283,185	02-01-1994	Epand et al.	
	6	US- 5,334,761	08-02-1994	Gebeyehu et al.	
	7	US- 5,364,771	11-15-1994	Lollar et al.	
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	10	US- 5,563,045	10-08-1996	Pittman et al.	
	11	US- 5,670,488	09-23-1997	Gregory et al.	
	12	US- 5,753,500	05-19-1998	Shenk et al.	
	13	US- 5,856,152	01-05-1999	Wilson et al.	
	14	US- 5,882,877	03-16-1999	Gregory et al.	
	15	US- 5,981,488	11-09-1999	Hoffmann	
	16	US- 5,994,136	11-30-1999	Naldini et al.	
	17	US- 6,013,516	01-11-2000	Verma et al.	
	18	US- 6,191,102	02-20-2001	DiMarchi et al.	
		US-			
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	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
19	WO 95/06743	03-09-95	Dong et al.		
20	WO 95/29993	11-09-95	Nabel et al.		
21	WO 96/33280	10-24-96	Zhang et al.		
22	WO 96/40955	12-19-96	Graham et al.		
23	WO 97/00326	01-03-97	Fallaux et al.		
24	WO 97/09441	03-13-97	Wadsworth et al		
25	WO 97/25446	07-17-97	Kaleko et al.		
26	WO 99/57296	11-11-99	Wadsworth et al		
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INITO	DALATION.	DIC	OLOCUDE	Application Number	10/715,976
			CLOSURE	Filing Date	November 17, 2003
STA	LEMENT B	ΥA	PPLICANT	First Named Inventor	Samuel C. Wadsworth et al.
				Group Art Unit	1614
	(use as many she	ets as	necessary)	Examiner Name	Not Yet Available
Sheet	2	of	5	Attorney Docket Number	5121

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²
	27	ABRUZZESE, Ronald V. et al., Ligand-Dependent Regulation of Plasmid-Based Transgene Expression in Vivo, Human Gene Therapy, Vol. 10, pp. 1499-1507 (June 10, 1999), Mary Ann Liebert, Inc.	
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<u> </u>	37	DANOS, Olivier et al., Safe and Efficient Generation of Recombinant Retroviruses with Amphotropic and Ecotropic Host Ranges, Proc. Natl. Acad. Sci., USA, Vol. 85, pp. 6460-6464 (September 1988), Genetics	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449AVPTO Complete if Known **Application Number** 10/715,976 INFORMATION DISCLOSURE Filing Date November 17, 2004 STATEMENT BY APPLICANT First Named Inventor Samuel C. Wadsworth et al. **Group Art Unit** 1614 (use as many sheets as necessary) **Examiner Name** Not Yet Available Sheet of Attorney Docket Number 5121

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	38	EMBRETSON, Janet E. et al., Lack of Competition Results in Efficient Packaging of Heterologous Murine Retroviral RNAs and Reticuloendotheliosis Virus Encapsidation-Minus RNAs by the Reticuloendotheliosis Virus Helper Cell Line, Journal of Virology, pp. 2675-2683 (Sep. 1987), American Socieity for Microbiology	
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	47	KAYTOR, Elizabeth N. et al., Carbohydrate Regulation of Hepatic Gene Expression, The Journal of Biological Chemistry, Vol. 272, No. 11, pp. 7525-7531 (1997) The American Society for Biochemistry and Molecular Biology, Inc.	
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Examine	r	Date	
Signatur	э	Considered	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/715,976			
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	49	KUPFER, Joel M., et al., High-Efficiency Gene Transfer to Autologous Rabbit Jugular Vein Grafts Using Adenovirus-Transferrin/Polylysine-DNA Complexes, Human Gene Therapy, Vol. 5, pp. 1437-1443 (December 1994), Mary Ann Liebert, Inc.					
	50	LEE, Hyun Chul et al., Remission in Models of Type 1 Diabetes by Gene Therapy Using a Single-Chain Insulin Analogue, Nature, Vol. 408, pp. 483-488 (November 23, 2000), Macmillan Magazines Ltd.					
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	52	MARKOWITZ, Dina et al., A Safe Packaging Line for Gene Transfer: Separating Viral Genes on Two Different Plasmids, Journal of Virology, Vol. 62, No. 4, pp. 1120-1124 (Apr. 1988), American Society for Microbiology					
	53	MILLER, A. Dusty, Human Gene Therapy Comes of Age, Nature, Vol. 357, pp. 455-460 (June 11, 1992)					
	54	NAKAYAMA, Kazuhisa, Furin: A Mammalian Subtilisin/Kex2p-like Endoprotease Involved in Processing of a Wide Variety of Precursor Proteins, Biochem. J., Vol. 327, pp. 625-635 (1997) Printed in Great Britain					
	55	O'CALLAGHAN, Brennon L. et al., Glucose Regulation of the Acetyl-CoA Carboxylase Promoter PI in Rat Hepatocytes, The Journal of Biological Chemistry, Vol. 276, No. 19, pp. 16033-16039 (May 11, 2001) The American Society for Biochemistry and Molecular Biology, Inc.					
	56	ROUET, Philippe et al., An Array of Binding Sites for Hepatocyte Nuclear Factor 4 of High and Low Affinities Modulates the Liver-Sepcfic Enhancer for the Human Alpha1-Microglobulin/Bikunin Precursor, Biochem. J., Vol. 334, pp. 577-584 (1998) Pinted in Great Britain					
	57	RUFO, Caterina et al.I, Involvement of a Unique Carbohydrate-Responsive Factor in the Glucose Regulation of Rat Liver Fatty-Acid Synthase Gene Transcription, The Journal of Biological Chemistry, Vol. 276, No. 24, pp. 21969-21975 (2001) The American Society for Biochemistry and Molecular Biology, Inc.					
	58	SABOURIN, Jean-Christophe et al., An Intronic Enhancer Essential for Tissue-Specific Expression of the Aldolase B Transgenes, The Journal of Biological Chemistry, Vol. 271, No. 7, pp. 3469-3473, (February 16, 1996) The American Society for Biochemistry and Molecular Biology, Inc.					
	59	SALVETTI, Anna et al., Factors Influencing Recombinant Adeno-Associated Virus Production, Human Gene Therapy, Vol. 9, pp. 695-706 (March 20, 1998), Mary Ann Liebert, Inc.					

Examiner	Data	
Signature	Date	
Signature	Considered	

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	INFORMATION DIGGL COURT				Application Number	10/715,976	
INFORMATION DISCLOSURE					Filing Date	November 17, 2003	
	STATEMENT BY APPLICANT				First Named Inventor	Samuel C. Wadsworth et al.	
					Group Art Unit	1614	
	(use as many sheets as necessary)			necessary)	Examiner Name	Not Yet Available	
	Sheet	5	of	5	Attorney Docket Number	5121	

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²
	60	THOMPSON, Kimberly et al., Localization of the Carbohydrate Response Element of the Rat L-Type Pyruvate Kinase Gene, The Journal of Biological Chemistry, Vol. 266, No. 14, pp. 8679-8682 (May 15, 1991) The American Society for Biochemistry and Moelcular Biology, Inc.	
	61	THULE, PM et al., Regulated Hepatic Insulin Gene Therapy of STZ-Diabetic Rats, Gene Therapy, Vol. 7, pp. 1744-1752 (2000) Macmillan Publishers Ltd.	
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Examiner	Date		
Signature	Considered	·	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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